FROM: KRAWITZ

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4. A biocide concentrate composition for use in hard water and in the presence of organic material, consisting of:

a.) a surfactant agent, for complexing or stabilizing iodine;

b.) a biocidal amount of iodine complexed by the surfactant agent, or

by hydriodic acid, and surfactant;

c.) propionic acid and equivalents for pH control, and for combining with ambient NH, or ammonium compounds arising-from fermenting-litter and manure to form ammonium propionate, thereby y producing residual biocidal activity, and inhibiting microorganism formation, including

d.) acidifiers to adjust the composition pH to with the acid range.

7. A biocide concentrate composition, consisting of:

a.) a surfactant agent, for complexing or stabilizing iodine and hydriodic acid;

h ) a biocidal an

preventing mold formation; and,

b.) a biocidal amount of iodine complexed by the surfactant: at least about 0.1% and, hydriodic acid: at least about 0.01% for reducing surface tension;

c.) propionic acid, and equivalents for combining-with ambient ammonia or ammonia containing compounds arising from fermenting litter and manure to form ammonium propionate: at least about 10%; and,

d.) acidifiers to adjust the composition pH to within the acid range

about 0.1%; hydriodic acid: (at least about 0.01%) propionic acid, and

equivalents thereof: at least about 10%; an acid: sufficient to obtain

a pH of about (-2 to 3; a buffer; at least about 18; and propyrene

glycol, (and equivalent glycols; at least about 5%), all part by weight.

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12. The composition of Claim 11, consisting of: Viodine: about

0.1% - 5%; hydriodic acid: about 0.01% - 2%; apropionic acid, and the

like: about 10% - 755; an acid sufficient to obtain a pH of about

2 to 3; a buffer: at least about 1%; and, propylene glycol, and the

like: about 5% - 30%, all parts by weight.

21. A method for reducing or eliminating biocides from surfaces for animal husbandry, animal feed and food processing operation in the presence of hard water, consisting of: applying to the surface a solution containing a surfactant agent; a biocidal amount of hydriodic acid and complexed or stabilized iodine, propionic acid, and equivalent acids for pH control, and for combining with ambient NH, or ammonia containing compounds arising from fermenting litter and manure to form ammonium propionate, thereby producing residual biocidal activity, and inhibiting or preventing microorganism including-mold formation; and, acidifiers to adjust the composition pH to within the acid range.

23. The method of Claim 21, incheding propylene glycol, and equivalent glycols for inhibiting dust formation.

28. The method of Claim 21, in which the solution consists of: jiodine:

about at least 0.1%; hydriodic acid: at least about 0.01%; propionic

acid, and equivalents thereof: at least about 10%; an acid: sufficient

to obtain a pH of about 2 to 3; a buffer: about 0% - 10%; and,

propylene glycol, and equivalents thereof: about 0 - 10%, all parts by

weight.

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29. The method of Claim 28, in which the solution consists of: iodine:

0% - 5%; hydriodic acid: about 0.01% - 2%; propionic acid, and
equivalents thereof: about 10% - 75%; an acid sufficient to obtain a
pH of about 2 to 3; a buffer: about 0% - 10%; and, propylene glycol,

and equivalents thereof: about 5% - 30%, all parts by weight.

Which NH3 to train NH3 Profusion 40. The method of Claim 21, for the as a bovine teat dip.

41. The method of Claim 28, for use as a bovine teat dip.